

## Funky Triangles

by Arya Akhavan (November 2012)

Angles for R.I. = 1.540

88 + 15 girdles = 103 facets

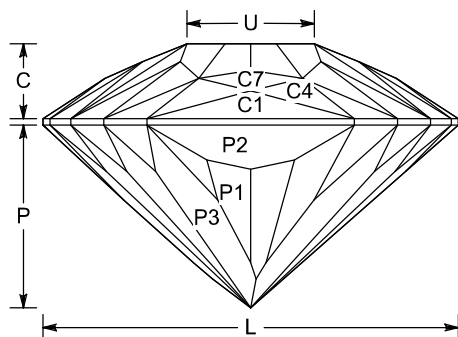
3-fold, mirror-image symmetry

96 index

$L/W = 1.072$   $T/W = 0.338$   $U/W = 0.329$

$P/W = 0.471$   $C/W = 0.193$

$Vol./W^3 = 0.238$



### PAVILION

P1	43.03°	02-06-10-14-18-22-26-30-34-38-42-46-50-54-58-62-66-70-74-78-82-86-90-94	Cut to centerpoint.
G1	90.00°	10-14-18-22-42-46-50-54-74-78-82-86	Set stone radius.
G2	90.00°	96-32-64	Meet P1, G1
P2	65.79°	96-32-64	Level girdle.
P3	41.30°	08-12-16-20-40-44-48-52-72-76-80-84	Meet P1, G1, G2, P2

### CROWN

C1	49.03°	96-32-64	Set girdle width.
C2	31.93°	10-22-42-54-74-86	Level girdle.
C3	29.92°	14-18-46-50-78-82	Level girdle.
C4	41.98°	01-31-33-63-65-95	Meet G1, G2, C1, C2
C5	30.24°	11-21-43-53-75-85	Meet G1, C2, C3
C6	29.15°	15-17-47-49-79-81	Meet G2, C3
C7	35.85°	96-32-64	Meet C1, C4; C2, C4, C5
C8	21.07°	06-26-38-58-70-90	Meet C2, C4, C5, C7; C3, C5, C6
C9	21.07°	03-29-35-61-67-93	Meet C2, C4, C5, C7, C8
T	0.00°	Table	Meet C6, C8

After playing around with a rounded rectangle barion, I decided to try and achieve the same effect with a triangle. This pattern has great light return because the P3 facets are NOT mirror-symmetric. (Be careful!) I like this in orange chrysoberyl, but works in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes.

Suggested size = 8-12 mm

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